

SAMS - GUS - NOS 3'} region from pZSL12

學相似 atcgatagag acatgttatt cacaaaccat aaaatgatgg ctaaaattgg tgtgattgga acquitatetq tttattatqu tttcaqqqcq caaaaatqcq aqtacttaat aaaattttac atttaaatta gaattttttt tatcaataaa tattaattta ttagttttat tagaaatatt 180 aattagaaaa ttttgaatcc ccgatttctc ctccttttct tcgctattca tcattttcta 240 accaaaccaa tettatatgt tetteaaatt agaaettgaa attattaatt ataattaaae 300 tgaaaacaat ttggtatcaa ttcatataca tgcttagtaa taaaatgcga taattaattg 360 ataaatctgc aaaagatttt acaaatatct ttcagaaaaa attaataaca aattttgtcg 420 ttttcatggt gttggtctga ggaggatttg gcactatana nctctcctac ggaccattct 480 ttgcacttca actaaacgat ggtcagaatt ggtggggatt ttatattcaa gcatatccct 540 ttcaaaactt cctacttact tcgtgcgttc ggtaatcggt aacattagac tttcaaaatc 600 atttttaacc cctaaacagt aaatttgaag gacaaaaata atatttttca aatttgatan 660 actatttttt ttttgtaatt tgacgaacca aaaccagatt tatcctgaat tttaggaacc 720 acagatgtna ctaaaccaat atttatttat tttctaaaac aaaatttcat ggcagcatgc 780 ctcagcccat gaaaaaaacc ttataaaaat atctacacat tgaccattga aaagttcgtt 840 900 ctcccatggg taaccagatc aaactcacat ccaaacataa catggatatc tccttaccaa tcatactaat tattttgggt taaatattaa tcattatttt taagatatta attaagaaat 960 taaaagattt tttaaaaaaa tgtataaaat tatattatto atgattttto atacatttga 1020 1080 ttttgataat aaatatattt tttttaattt cttaaaaaat gttgcaagac acttattaga catagtettg ttetgtttac adaagcatte atcatttaat acattaaaaa atatttaata 1140 1200 ctaacagtag aatcttcttg tgagtggtgt gggagtaggc aacctggcat tgaaacgaga gaaagagagt cagaaccaga agacaaataa aaagtatgca acaaacaaat caaaatcaaa 1260 1320 qqqcaaaqqc tqqqqttqqc tcaattqqtt qctacattca attttcaact cagtcaacgg 1380 ttqaqattca ctctqacttc cccaatctaa gccgcggatg caaacggttg aatctaaccc 1440 acaatccaat ctcqttactt aggggctttt ccgtcattaa ctcacccctg ccacccggtt tocctataaa ttggaactca atgotoccct ctaaactcgt atcgcttcag agttgagacc 1500 1560 aagacacact cgttcatata totototget ottotottot ottotaccto toaaggtact

Figure 1 (continued)

tttcttctcc ctctaccaaa tcctagattc cgtggttcaa tttcggatct tgcacttctg 1680 gtttgctttg ccttgctttt tcctcaactg ggtccatcta ggatccatgt gaaactctac 1740 tetttettta atatetgegg aataegegtt ggaettteag atetagtega aateatttea 1800 taattgcctt tctttctttt agcttatgag aaataaaatc acttttttt tatttcaaaa 1860 taaaccttgg gccttgtgct gactgagatg gggtttggtg attacagaat tttagcgaat 1920 1980 ttaggettea attttatteg agtataggte acaataggaa tteaaaettt gageagggga 2040 attaatccct tccttcaaat ccagtttgtt tgtatatatg tttaaaaaaat gaaacttttg 2100 ctttaaattc tattataact ttttttatgg ctgaaatttt tgcatgtgtc tttgctctct 2160 gttgtaaatt tactgtttag gtactaactc taggettgtt gtgcagtttt tgaagtataa 2220 ccatggtacg tcctgtagaa accccaaccc gtgaaatcaa aaaactcgac ggcctgtggg 2280 cattcagtct ggatcgcgaa aactgtggaa ttgatcagcg ttggtgggaa agcgcgttac aagaaagccg ggcaattgct gtgccaggca gttttaacga tcagttcgcc gatgcagata 2340 2400 ttcgtaatta tgcgggcaac gtctggtatc agcgcgaagt ctttataccg aaaggttggg 2460 caggecageg tategtgetg egtttegatg eggteactea ttaeggeaaa gtgtgggtea 2520 ataatcagga agtgatggag catcagggcg gctatacgcc atttgaagcc gatgtcacgc 2580 2640 qqcaqactat cccqccqqqa atqqtqatta ccqacqaaaa cqqcaaqaaa aagcaqtctt 2700 acttecatga tttetttaae tatgeeggaa teeategeag egtaatgete taeaceaege cgaacacctg ggtggacgat atcaccgtgg tgacgcatgt cgcgcaagac tgtaaccacg 2760 cgtctgttga ctggcaggtg gtggccaatg gtgatgtcag cgttgaactg cgtgatgcgg 2820 2880 atcaacaggt ggttgcaact ggacaaggca ctagcgggac tttgcaagtg gtgaatccgc 2940 acctctqqca accqqqtqaa qqttatctct atqaactqtq cqtcacaqcc aaaaqccaqa 3000 cagagtgtga tatctacccg cttcgcgtcg gcatccggtc agtggcagtg aagggccaac agttcctgat taaccacaaa ccgttctact ttactggctt tggtcgtcat gaagatgcgg 3060 3120 acttacgtgg caaaggattc gataacgtgc tgatggtgca cgaccacgca ttaatggact ggattggggc caactcctac cgtacctcgc attaccctta cgctgaagag atgctcgact 3180

Figure 1 (continued)

3240 gggcagatga acatggcatc gtggtgattg atgaaactgc tgctgtcggc tttaacctct 3300 MEGAT ctttaggcat tggtttcgaa gcgggcaaca agccgaaaga actgtacagc gaagaggcag 3360 tcaacgggga aactcagcaa gcgcacttac aggcgattaa agagctgata gcgcgtgaca 3420 aaaaccaccc aagcgtggtg atgtggagta ttgccaacga accggatacc cgtccgcaag 3480 tgcacgggaa tatttcgcca ctggcggaag caacgcgtaa actcgacccg acgcgtccga 3540 teacetgegt caatgtaatg ttetgegacg etcacacega taccateage gatetetttg 3600 atgtgctgtg cctgaaccgt tattacggat ggtatgtcca aagcggcgat ttggaaacgg 3660 cagagaaggt actggaaaaa gaacttctgg cctggcagga gaaactgcat cagccgatta. 3720 tcatcaccga atacggcgtg gatacgttag ccgggctgca ctcaatgtac accgacatgt 3780 ggagtgaaga gtatcagtgt gcatggctgg atatgtatca ccgcgtcttt gatcgcgtca gcgccgtcgt cggtgaacag gtatggaatt tcgccgattt tgcgacctcg caaggcatat . 3840 3900 tgcgcgttgg cggtaacaag aaagggatct tcactcgcga ccgcaaaccg aagtcggcgg 3960 cttttctgct gcaaaaacgc tggactggca tgaacttcgg tgaaaaaccg cagcagggag 4020 gcaaacaatg aatcaacaac teteetggeg caccategte ggetacagee teggtgggga 4080 attoccoggg ggtacctaat agtgagatcc aacacttacg tttgcaacgt ccaagagcaa 4140 atagaccacg nacgeoggaa ggttgeegea gegtgtggat tgegteteaa ttetetettg 4200 caggaatgca atgatgaata tgatactgac tatgaaactt tgagggaata ctgcctagca 4260 ccgtcacctc ataacgtgca tcatgcatgc cctgacaaca tggaacatcg ctatttttct 4320 gaagaattat gctcgttgga ggatgtcgcg gcaattgcag ctattgccaa catcgaacta 4380 cccctcacgc atgcattcat caatattatt catgcgggga aaggcaagat taatccaact 4440 ggcaaatcat ccagcgtgat tggtaacttc agttccagcg acttgattcg ttttggtgct 4500 acccacgttt tcaataagga cgagatggtg gagtaaagaa ggagtgcgtc gaagcagatc 4560 gttcaaacat ttggcaataa agtttcttaa gattgaatcc tgttgccggt cttgcgatga ttatcatata atttctgttg aattacgtta agcatgtaat aattaacatg taatgcatga 4620 4680 cgttatttat gagatgggtt tttatgatta gagtcccgca attatacatt taatacgcga tagaaaacaa aatatagcgc gcaaactagg ataaattatc gcgcgcggtg tcatctatgt 4740 4800 tactagatcg atcaaacttc ggtactgtgt aatgacgatg agcaatcgag aggctgacta 4827 acaaaaggta catcggtcga cgagctc

Figure 2
{1.3-kb SAMS - soy mutant ALS - soy ALS 3'} region from pZSL13 ///

						Walter.
tctagatcaa	actcacatcc	aaacataaca	tggatatctt	ccttaccaat	catactaatt	60%
attttgggtt	aaatattaat	cattattttt	aagatattaa	ttaagaaatt	aaaagatttt	120
ttaaaaaaat	gtataaaatt	atattattca	tgatttttca	tacatttgat	tttgataata	180
aatatattt	ttttaatttc	ttaaaaaatg	ttgcaagaca	cttattagac	atagtcttgt	240
tctgtttaca	aaagcattca	tcatttaata	cattaaaaaa	tatttaatac	taacagtaga	300
atcttcttgt	gagtggtgtg	ggagtaggca	acctggcatt	gaaacgagag	aaagagagtc	360
agaaccagaa	gacaaataaa	aagtatgcaa	caaacaaatc	aaaatcaaag	ggcaaaggct	420
ggggttggct	caattggttg	ctacattcaa	ttttcaactc	agtcaacggt	tgagattcac	480
tctgacttcc	ccaatctaag	ccgcggatgc	aaacggttga	atctaaccca	caatccaatc	540
tcgttactta	ggggcttttc	cgtcattaac	tcacccctgc	cacccggttt	ccctataaat	600
tggaactcaa	tgctcccctc	taaactcgta	tcgcttcaga	gttgagacca	agacacactc	660
gttcatatat	ctctctgctc	ttetettete	ttctacctct	caaggtactt	ttcttctccc	720
tctaccaaat	cctagattcc	gtgġttcaat	ttcggatctt	gcacttctgg	tttgctttgc	780
cttgcttttt	cctcaactgg	gtccatctag	gatccatgtg	aaactctact	ctttctttaa	840
tatctgcgga	atacgcgttg	gactttcaga	tctagtcgaa	atcatttcat	aattgccttt	900
ctttctttta	gcttatgaga	aataaaatca	ctttttttt	atttcaaaat	aaaccttggg	960
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ttttattcga	gtataggtca	caataggaat	tcaaactttg	agcaggggaa	ttaatccctt	1140
ccttcaaatc	cagtttgttt	gtatatatgt	ttaaaaaatg	aaacttttgc	tttaaattct	1200
attataactt	tttttatggc	tgaaattttt	gcatgtgtct	ttgctctctg	ttgtaaattt	1260
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aacacaatgg	cggccaccgc	ttccagaacc	acccgattct	cttcttcctc	ttcacacccc	1380
accttcccca	aacgcattac	tagatccacc	ctccctctct	ctcatcaaac	cctcaccaaa	1440
cccaaccacg	ctctcaaaat	caaatgttcc	atctccaaac	ccccacggc	ggcgcccttc	1500
accaaggaag	cgccgaccac	ggagcccttc	gtgtcacggt	tcgcctccgg	cgaacctcgc	1560

Figure 2 (continued)

aagggcgcgg acatcettgt ggaggcgctg gagaggcagg gcgtgacgac ggtgttcgcg 1680~ taccccggcg gtgcgtcgat ggagatccac caggcgctca cgcgctccgc cgccatccgc 1740 aacgtgctcc cgcgccacga gcagggcggc gtcttcgccg ccgaaggcta cgcgcgttcc 1800 teeggeetee eeggegtetg cattgeeace teeggeeeeg gegeeaceaa eetegtgage 1860 ggcctcgccg acgctttaat ggacagcgtc ccagtcgtcg ccatcaccgg ccaggtcgcc 1920 cgccggatga tcggcaccga cgccttccaa gaaaccccga tcgtggaggt gagcagatcc 1980 atcacgaage acaactacet cateetegae gtegaegaea teeceegegt egtegeegag 2040 getttetteg tegecacete eggeegeece ggteeggtee teategacat teecaaagae 2100 gttcagcagc aactcgccgt gcctaattgg gacgagcccg ttaacctccc cggttacctc 2160 gecaggetge ceaggeeece egecgaggee caattggaae acattgteag acteateatg 2220 gaggeceaaa agecegttet ctacgtegge ggtggeagtt tgaatteeag tgetgaattg 2280 aggogotttg ttgaactcac tggtattccc gttgctagca ctttaatggg tcttggaact 2340 tttcctattg gtgatgaata ttcccttcag atgctgggta tgcatggtac tgtttatgct 2400 aactatgctg ttgacaatag tgatttgttg cttgcctttg gggtaaggtt tgatgaccgt 2460 gttactggga agcttgaggc ttttgctagt agggctaaga ttgttcacat tgatattgat 2520 tctgccgaga ttgggaagaa caagcaggcg cacgtgtcgg tttgcgcgga tttgaagttg 2580 gccttgaagg gaattaatat gattttggag gagaaaggag tggagggtaa gtttgatctt 2640 ggaggttgga gagaagagat taatgtgcag aaacacaagt ttccattggg ttacaagaca 2700 ttocaggacg cgatttotoc goagcatgot atogaggtto ttgatgagtt gactaatgga 2760 gatgctattg ttagtactgg ggttgggcag catcaaatgt gggctgcgca gttttacaag 2820 tacaagagac cgaggcagtg gttgacctca gggggtcttg gagccatggg ttttggattg cctgcggcta ttggtgctgc tgttgctaac cctggggctg ttgtggttga cattgatggg 2880 2940 gatggtagtt tcatcatgaa tgttcaggag ttggccacta taagagtgga gaatctccca 3000 gttaagatat tgttgttgaa caatcagcat ttgggtatgg tggttcagtt ggaggatagg 3060 ttctacaagt ccaatagagc tcacacctat cttggagatc cgtctagcga gagcgagata ttcccaaaca tgctcaagtt tgctgatgct tgtgggatac cggcagcgcg agtgacgaag 3120 3180 aaqqaaqaqc ttaqaqcgqc aattcaqaga atgttggaca cccctggccc ctaccttctt

Figure 2 (continued)

gatgtcattg	tgccccatca	ggagcatgtg	ttgccgatga	ttcccagtaa	tggatccttc ;	3240
aaggatgtga	taactgaggg	tgatggtaga	acgaggtact	gattgcctag	accaaatgtt	a 3300
ccttgatgct	tgttttgtac	aatatatata	agataatgct	gtcctagttg	caggatttgg	3360
cctgtggtga	gcatcatagt	ctgtagtagt	tttggtagca	agacatttta	ttttcctttt	3420
atttaactta	ctacatgcag	tagcatctat	ctatictctgt	agtctgatat	ctcctgttgt	3480
ctgtattgtg	ccgttggatt	ttttgctgta	gtgagactga	aaatgatgtg	ctagtaataa	3540
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ggttacatat	caatgttttt	ctttttttag	cggttggtag	acgtgtagat	tcaacttctc	3660
ttggagctca	cctaggcaat	cagtaaaatg	catattcctt	ttttaacttg	ccatttattt	3720
acttttagtg	gaaattgtga	ccaatttgtt	catgtagaac	ggatttggac	cattgcgtcc	3780
acaaaacgtc	tcttttgctc	gatcttcaca	aagcgatacc	gaaatccaga	gatagttttc	3840
aaaagtcaga	aatggcaaag	ttataaatag	taaaacagaa	tagatgctgt	aatcgacttc	3900
aataacaagt	ggcatcacgt	ttctagttct	agacccggg			3939

Figure 3 {2.1-kb SAMS - Arabidopsis mutant ALS - Arabidopsis ALS 3'} region from pZSL14

atcgatagag	acatgttatt	cacaaaccat	aaaatgatgg	ctaaaattgg	tgtgattgga	60 <i>ia</i> ,
acgatatctg	tttattatga	tttcagggcg	caaaaatgcg	agtacttaat	aaaattttac	120
atttaaatta	gaatttttt	tatcaataaa	tattaattta	ttagttttat	tagaaatatt	180
aattagaaaa	ttttgaatcc	ccgatttctc	ctccttttct	tcgctattca	tcattttcta	2,40
accaaaccaa	tcttatatgt	tcttcaaatt	agaacttgaa	attattaatt	ataattaaac	300
tgaaaacaat	ttggtatcaa	ttcatataca	tgcttagtaa	taaaatgcga	taattaattg	360
ataaatctgc	aaaagatttt	acaaatatct	ttcagaaaaa	attaataaca	aattttgtcg	420
ttttcatggt	gttggtctga	ggaggatttg	gcactatana	nctctcctac	ggaccattct	480
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atttttaacc	cctaaacagt	aaatttgaag	gacaaaaata	atattttca	aatttgatan	660
actattttt	ttttgtaatt	tgacgaacca	aaaccagatt	tatcctgaat	tttaggaacc	720
acagatgtna	ctaaaccaat	atttatttat	tttctaaaac	aaaatttcat	ggcagcatgc	780
ctcagcccat	gaaaaaaacc	ttataaaaat	atctacacat	tgaccattga	aaagttcgtt 	840
ctcccatggg	taaccagatc	aaactcacat	ccaaacataa	catggatatc	tccttaccaa	900
tcatactaat	tattttgggt	taaatattaa	tcattatttt	taagatatta	attaagaaat	960
taaaagattt	tttaaaaaaa	tgtataaaat	tatattattc	atgattttc	atacatttga	1020
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gaaagagagt	cagaaccaga	agacaaataa	aaagtatgca	acaaacaaat	caaaatcaaa	1260
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acaatccaat	ctcgttactt	aggggctttt	ccgtcattaa	ctcacccctg	ccacccggtt	1440
tccctataaa	ttggaactca	atgctcccct	ctaaactcgt	atcgcttcag	agttgagacc	1500
aagacacact	cgttcatata	tctctctgct	cttctcttct	cttctacctc	tcaaggtact	1560

Figure 3 (continued)

tttcttctcc	ctctaccaaa	tcctagattc	cgtggttcaa	tttcggatct	tgcacttctg	1620
gtttgctttg	ccttgctttt	tcctcaactg	ggtccatcta	ggatccatgt	gaaactctac	1680
tctttcttta	atatctgcgg	aatacgcgtt	ggactttcag	atctagtcga	aatcatttca	1740
taattgcctt	tctttctttt	agcttatgag	aaataaaatc	acttttttt	tatttcaaaa	1800
taaaccttgg	gccttgtgct	gactgagatg	gggtttggtg	attacagaat	tttagcgaat	1860
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cctccatctc	cgccgtgctc	aacacaacca	ccaatgtcac	aaccacťccc	tctccaacca	2400
aacctaccaa	acccgaaaca	ttcatctccc	gattcgctcc	agatcaaccc	cgcaaaggcg	2460
ctgatatcct	cgtcgaagct	ttagaacgtc	aaggcgtaga	aaccgtattc	gcttaccctg	2520
gaggtgcatc	aatggagatt	caccaagcct	taacccgctc	ttcctcaatc	cgtaacgtcc	2580
ttcctcgtca	cgaacaagga	ggtgtattcg	cagcagaagg	atacgctcga	tcctcaggta	2640
aaccaggtat	ctgtatagcc	acttcaggtc	ccggagctac	aaatctcgtt	agcggattag	2700
ccgatgcgtt	gttagatagt	gttcctcttg	tagcaatcac	aggacaagtc	gctcgtcgta	2760
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aacagcttgc	gattcctaat	tgggaacagg	ctatgagatt	acctggttat	atgtctagga	3000
tgcctaaacc	tccggaagat	tctcatttgg	agcagattgt	taggttgatt	tctgagtcta	3060
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Figure 3 (continued)

gtgatgatga	gttgtcgtta	catatgcttg	gaatgcatgg	gactgtgtat	gcaaattacg	3240
ctgtggagca	tagtgatttg	ttgttggcgt	ttggggtaag	gtttgatgat	cgtgtcacgg	3300
gtaagcttga	ggcttttgct	agtagggcta	agattgttca	tattgatatt	gactcggctg	3360
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taataagtac	tggtgtcggg	caacatcaaa	tgtgggcggc	gçagttctác	aattacaaga	3660
aaccaaggca	gtggctatca	tcaggaggcc	ttggagctat	gggatttgga	cttcctgctg	3720
cgattggagc	gtctgttgct	aaccctgatg	cgatagttgt	ggatattgac	ggagatggaa	3780
gctttataat	gaatgtgcaa	gagctagcca	ctattcgtgt	agagaatett	ccagtgaagg	3840
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acatgttgct	gtttgcagca	gcttgcggga	ttccagcggc	gagggtgaca	aagaaagcag	4020
atctccgaga	agctattcag	acaatgctgg	atacaccagg	accttacctg	ttggatgtga	4080
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Figure 3 (continued)

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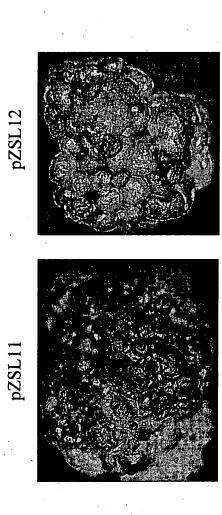


Figure 4. GUS Expression in Soybean Embryogenic Cell Lines Transformed with pZSL11 or pZSL12.

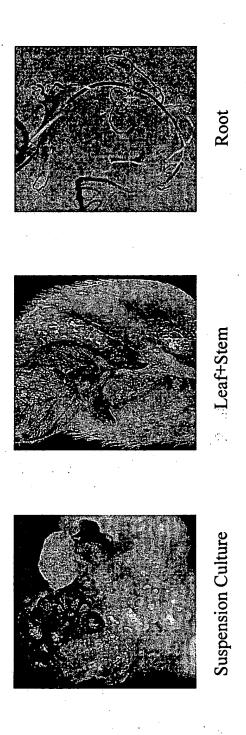


Figure 5. GUS Expression in Soybean Transformed with pZSL